

ABSTRACT

A plant output signal is divided into a number of output frequency subband signals. Each subband signal may be digitized at a sampling rate that need only be sufficiently high to capture the bandwidth of that subband signal. The digitized output subband signals are time-aligned with an estimated output signal that has been derived from a plant input signal. An adaptive equalization process is performed using the time aligned output subband and estimated output signals. This technique may be applied to adaptively equalize the channels of a linear amplification with nonlinear components (LINC) style radio frequency (RF) amplifier.

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